

C.O.C. # 12

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 X 420-9210
(509) 924-9200 X 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M105014

CLIENT: Bristol		INVOICE TO: Bristol Enviro. & Engineering		TURNAROUND REQUEST in Business Days* <div style="display: flex; justify-content: space-around; font-size: small;"><div>Organic & Inorganic Analyses</div><div>Petroleum Hydrocarbon Analyses</div></div> <div style="display: flex; justify-content: space-around; font-size: x-small;"><div>STD. 10 7 5 4 3 2 1 <1</div><div>STD. 5 4 3 2 1 <1</div></div> <div style="text-align: center; margin-top: 5px;">OTHER Please Specify _____</div> <p style="font-size: x-small; margin-top: 5px;">*Turnaround Requests less than standard may incur Rush Charges.</p>																
REPORT TO: Anne Kramanetler		P.O. NUMBER: 21090																		
ADDRESS: Amchitha Island																				
PHONE: 770-0974		FAX: 770-0975																		
PROJECT NAME: Amchitha Island		REQUESTED ANALYSES																		
PROJECT NUMBER: 21090																				
SAMPLED BY: Charlie																				
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DRO	BTX w/ Naphthalene											MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID			
1. OIAM B601SL	5/19/01 1510	X	X											S	2					
2. Trip Blank-B6	5/19/01 1512		X																	
3. can 8/7/01																				
4. change ID																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				
RELINQUISHED BY: Charles R. Marshall		FIRM: Bristol		DATE: 5/19/01		RECEIVED BY: Kent D. B. B.		FIRM: NCA		DATE: 5/19/01		TIME: 19:37								
RELINQUISHED BY:		FIRM:		DATE:		RECEIVED BY:		FIRM:		DATE:		TIME:								
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:								
ADDITIONAL REMARKS: Confirmation Soil Sample in Association with in Berm piping Tank B6																	TEMP:		PAGE / OF /	



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 05/19/01 19:37. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M105014



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB601SL	M105014-01	Soil	05/19/01 00:00	05/19/01 19:37
Trip Blk - B6	M105014-02	Soil	05/19/01 00:00	05/19/01 19:37

COC #12

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

1 of 7



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB601SL (M105014-01) Soil						Sampled: 05/19/01 Received: 05/19/01			
Diesel Range Organics	1640	150	mg/kg dry	1	AK 102	05/20/01	05/21/01	0105027	
<i>Surr: 1-Chlorooctadecane</i>	93.4 %	75-125							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

2 of 7



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
---------	--------	--------------------	-------	----------	--------	----------	----------	-------	-------

01AMB601SL (M105014-01) Soil

Sampled: 05/19/01 Received: 05/19/01

Benzene	ND	0.100	mg/kg dry	50	1B BTEX/MTI	05/21/01	05/21/01	0105031	
Toluene	ND	0.400	"	"	"	"	"	"	
Ethylbenzene	ND	0.400	"	"	"	"	"	"	
Xylenes (total)	ND	0.800	"	"	"	"	"	"	
Naphthalene	ND	4.00	"	"	"	"	"	"	

Surr: 4-BFB 77.6 % 50-150

Trip Blk - B6 (M105014-02) Soil

Sampled: 05/19/01 Received: 05/19/01

Benzene	ND	0.100	mg/kg dry	50	1B BTEX/MTI	05/21/01	05/21/01	0105031	
Toluene	ND	0.400	"	"	"	"	"	"	
Ethylbenzene	ND	0.400	"	"	"	"	"	"	
Xylenes (total)	ND	0.800	"	"	"	"	"	"	
Naphthalene	ND	4.00	"	"	"	"	"	"	

Surr: 4-BFB 114 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB601SL (M105014-01) Soil					Sampled: 05/19/01 Received: 05/19/01				
% Solids	74.6	0.0100 % by Weight		1	Gravimetric	05/19/01	05/20/01	0105033	
Trip Blk - B6 (M105014-02) Soil					Sampled: 05/19/01 Received: 05/19/01				
% Solids	100	0.0100 % by Weight		1	Gravimetric	05/19/01	05/20/01	0105033	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0105027 - 3545 ASE										
Blank (0105027-BLK1)					Prepared & Analyzed: 05/20/01					
Diesel Range Organics	ND	150	mg/kg wet							
<i>Surr: 1-Chlorooctadecane</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.2</i>	<i>75-125</i>			
LCS (0105027-BS1)					Prepared & Analyzed: 05/20/01					
Diesel Range Organics	1260	150	mg/kg wet	1250		101	75-125			
<i>Surr: 1-Chlorooctadecane</i>	<i>15.3</i>		<i>"</i>	<i>12.5</i>		<i>122</i>	<i>75-125</i>			
LCS Dup (0105027-BSD1)					Prepared: 05/20/01	Analyzed: 05/21/01				
Diesel Range Organics	1270	150	mg/kg wet	1250		102	75-125	0.791	20	
<i>Surr: 1-Chlorooctadecane</i>	<i>12.1</i>		<i>"</i>	<i>12.5</i>		<i>96.8</i>	<i>75-125</i>			
Duplicate (0105027-DUP3)					Source: M105018-03	Prepared: 05/20/01	Analyzed: 05/21/01			
Diesel Range Organics	625	150	mg/kg dry		621			0.642	50	
<i>Surr: 1-Chlorooctadecane</i>	<i>6.57</i>		<i>"</i>	<i>13.9</i>		<i>47.3</i>	<i>75-125</i>			<i>S-04</i>
Duplicate (0105027-DUP4)					Source: M105018-04	Prepared: 05/20/01	Analyzed: 05/21/01			
Diesel Range Organics	1200	186	mg/kg dry		1250			4.08	50	
<i>Surr: 1-Chlorooctadecane</i>	<i>7.70</i>		<i>"</i>	<i>15.5</i>		<i>49.7</i>	<i>75-125</i>			<i>S-04</i>
Matrix Spike (0105027-MS1)					Source: M105012-01	Prepared: 05/20/01	Analyzed: 05/21/01			
Diesel Range Organics	2270	150	mg/kg dry	1440	655	112	60-140			
<i>Surr: 1-Chlorooctadecane</i>	<i>15.0</i>		<i>"</i>	<i>14.4</i>		<i>104</i>	<i>75-125</i>			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

5 of 7



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 0105031 - MeOH Extraction

Blank (0105031-BLK1)

Prepared & Analyzed: 05/21/01

Benzene	ND	0.100	mg/kg wet
Toluene	ND	0.400	"
Ethylbenzene	ND	0.400	"
Xylenes (total)	ND	0.800	"
Naphthalene	ND	4.00	"

Surr: 4-BFB 2.63 " 2.50 105 50-150

LCS (0105031-BS1)

Prepared & Analyzed: 05/21/01

Benzene	2.52	0.100	mg/kg wet	2.50	101	69-138
Toluene	2.43	0.400	"	2.50	97.2	53-151
Ethylbenzene	2.62	0.400	"	2.50	105	61-141
Xylenes (total)	7.18	0.800	"	7.50	95.7	62-141
Naphthalene	1.87	1.00	"	2.50	74.8	65-135

Surr: 4-BFB 2.45 " 2.50 98.0 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:14

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of method established control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M105014 FINAL 10 23 01 1414.mdb Default Report (not modified)
0105027-DUP3	AK102 (DRO)	1-Chlorooctadecane	S-04
0105027-DUP3	AK102 (DRO)	1-Chlorooctadecane	Exceeds lower control limit
0105027-DUP4	AK102 (DRO)	1-Chlorooctadecane	S-04
0105027-DUP4	AK102 (DRO)	1-Chlorooctadecane	Exceeds lower control limit